

**AMENDMENTS TO THE CLAIMS**

Claims 1-6 and 8-24 were pending in the Application. Claims 1 and 16 are independent claims. Claims 1-6 and 8-15, and 17-24 depend from independent claims 1 and 16, respectively. Claims 1, 5, 6, 16 and 18 are currently amended. Claims 25 and 26 are new.

**Listing of the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application.

1. (Currently Amended) A method for classifying an audio signal, the method comprising:

receiving an audio signal to be classified;  
analyzing selected audio signal components;  
recording a result of analysis of the selected audio signal components;  
comparing the recorded result of analysis to a threshold value; and  
classifying the audio signal based upon comparison of the recorded result of analysis and the threshold value, ~~wherein classifying the audio signal further comprises turning on a flag in a header of a packet of digital audio information, wherein the flag provides an indication of classification of the audio signal based upon comparison of the recorded result of analysis and the threshold value.~~

2. (Previously Presented) The method according to claim 1, wherein classifying the audio signal based upon comparison of the recorded result of analysis and the threshold value further comprises:

if the recorded result of analysis is greater than the threshold value, then the audio signal is determined to be music; and

if the recorded result of analysis is less than the threshold value, then the audio signal is determined to be speech.

3. (Previously Presented) The method according to claim 1, wherein analyzing the selected audio signal components comprises counting zero point transitions of the selected audio signal components.

4. (Previously Presented) The method according to claim 1, wherein recording a result of analysis of the selected audio signal components comprises recording a count value of a number of zero point transitions of the selected audio signal components.

5. (Currently Amended) The method according to claim 1, further comprising selecting audio signal components prior to analyzing selected audio signal components, wherein said selecting audio signal components comprises passing the audio signal through a low pass filter for filtering out audio signal components having a frequency greater than a predetermined frequency thereby reducing an amount of audio information to be analyzed. wherein transmitting components of the audio signal having a frequency less than a predetermined frequency comprises passing the audio signal through a low pass filter, the low pass filter being adapted to permit transmission of frequencies below the predetermined frequency.

6. (Currently Amended) The method according to claim 1, further comprising selecting a number of transmitted audio signal components for analysis prior to analyzing selected audio signal components, wherein said selecting audio signal components comprises passing transmitting digital audio components the audio signal through a decimator, wherein every 1 in N audio signal components is transmitted and audio signal components between 1 and N are discarded.

7. (Canceled)

8. (Previously Presented) The method according to claim 1, further comprising:

transmitting components of the audio signal having a frequency less than a predetermined frequency; and

selecting a number of transmitted audio signal components for analysis.

9. (Previously Presented) The method according to claim 1, wherein classifying the audio signal occurs at a transmitting end of an audio transmission system.

10. (Previously Presented) The method according to claim 1, wherein classifying the audio signal occurs at a receiving end of an audio transmission system.

11. (Previously Presented) The method according to claim 1, wherein the audio signal is one of an analog signal and a digital signal.

12. (Previously Presented) The method according to claim 1, wherein the threshold value used in the comparison is pre-determined and pre-set by a user.

13. (Previously Presented) The method according to claim 1, wherein the threshold value used in the comparison determined through trial and error of a plurality of iterations in a comparing device.

14. (Previously Presented) The method according to claim 1, wherein analyzing selected audio signal components comprises counting zero point transitions of the audio signal for a predetermined period of time.

15. (Previously Presented) The method according to claim 1, further comprising:

converting the audio signal from an analog signal to a digital signal;  
encoding the audio signal;  
packetizing the audio signal;  
transmitting the audio signal;  
decoding the audio signal; and  
processing the audio signal, wherein processing at least comprises one of storing the audio signal and playing the audio signal.

16. (Currently Amended) An apparatus for classifying an audio signal, the apparatus comprising:

at least one audio signal component reducer for selecting a reduced number of audio signal components for analysis;

a zero point counter for counting and recording zero point transitions encountered in analysis of the selected audio signal components; [[and]]

a comparator for comparing a recorded result of analysis to a threshold value and classifying the audio signal based upon comparison of the recorded result of analysis and the threshold value; and

a circuit for packetizing the audio signal into packets, said packets including a header, said header including a flag indicating classification of the audio signal.

17. (Previously Presented) The apparatus according to claim 16, wherein classifying the audio signal based upon comparison of the recorded result of analysis and the threshold value in the comparator further comprises:

if the recorded result of analysis is greater than the threshold value, then the audio signal is determined to be music; and

if the recorded result of analysis is less than the threshold value, then the audio signal is determined to be speech.

18. (Currently Amended) The apparatus according to claim 16, further comprising wherein the at least one audio signal component reducer comprises one or both of:

a low pass filter that prevents for preventing transmission of components of the audio signal having a frequency greater than a predetermined frequency; and

~~a decimator for selecting a reduced number of audio components for analysis.~~

19. (Previously Presented) The apparatus according to claim 18, wherein the decimator selecting a reduced number of audio components for analysis comprises the decimator selecting every 1 in N audio signal components to be transmitted and selecting the audio signal components between 1 and N to be discarded.

20. (Previously Presented) The apparatus according to claim 16, further comprising at least one of an audio signal encoder and an audio signal decoder.

21. (Previously Presented) The apparatus according to claim 20, further comprising a speech/music classifying device being associated with the audio signal encoder.

22. (Previously Presented) The apparatus according to claim 20, further comprising a speech/music classifying device being associated with the audio signal decoder.

23. (Previously Presented) The apparatus according to claim 20, further comprising a signal processor and an audio processing unit associated with the audio signal decoder.

24. (Previously Presented) The apparatus according to claim 20, further comprising a bitstream multiplexer associated with the audio signal decoder.

25. (New) The apparatus according to claim 16, wherein the selected audio signal components are frequency components.

26. (New) The method according to claim 1, wherein the selected audio signal components are frequency components.